

a loop antenna is placed at the opening defining the port, encompassing the path of any said conductors; and,

radiation received at the loop antenna is monitored to detect unauthorized use of the electronic security device by providing a time varying current in the conductors and detecting a resulting signature at the loop antenna, and determining that the electronic security device has a capacitance detected by a signature signal at the loop antenna indicating presence of the conductors.

7.(AMENDED) The method set forth in claim 6, further comprising at least limiting transfer of information between the electronic security device and the host device upon detection of said unauthorized use.

8.(AMENDED) The method set forth in claim 6, wherein the electronic security device is a smart card.

IN THE ABSTRACT:

Please add the following Abstract.

-- A device for sensing unauthorized use of an electronic security device has a host device and a detector with a loop antenna associated with the port that receives the electronic security device, such as a smart card. The host device comprises a housing having the port formed therein. In one embodiment, the port detector senses radiation emitted from unauthorized use of the electronic security device by attachment of hot-wire conductors to the security device, which conductors carry currents through the port and the detector. In an alternate embodiment, the dielectric constant of the electronic security device is measured and compared to a predetermined value for distinguishing a nominal device from one with attached hot wiring.--

REMARKS

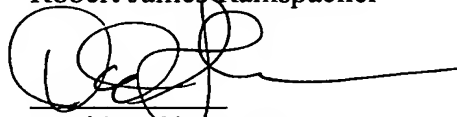
The specification has been amended to include a reference to the priority applications.

The claims have been amended to remove reference indicia.

To meet the requirements of the United States, the Abstract (as amended by response to the Written Opinion) is added.

No fee is believed to have been incurred by virtue of this amendment. However if a fee is incurred on the basis of this amendment, please charge such fee against deposit account 07-0832

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MARKED UP VERSION OF THE AMENDED CLAIMS

1.(AMENDED) An apparatus sensing unauthorized use of an electronic security device [(108)], the apparatus comprising a host device [(101)] with a housing [(121)] having an opening forming a port [(112)] configured to receive the electronic security device [(108)], the port [(112)] forming a limited passage into the housing [(121)] for passage of the electronic security device [(108)]; and a port detector [(308)] for sensing radiation emitted from unauthorized modification of the electronic security device [(108)], the port detector [(308)] controlling or preventing operation of the apparatus based upon detection of said unauthorized modification, [characterized in that] wherein

the unauthorized modification includes coupling to the electronic security device [(108)] conductors [(302)] extending through the port [(112)] and wherein the port detector [(308)] has a loop antenna [(306)] encompassing the opening forming the port [(112)], the loop antenna [(306)] being responsive to time varying currents passing along the conductors [(302)].

2.(AMENDED) The apparatus set forth in claim 1, wherein the port detector [(308)] detects electromagnetic radiation occurring at the port [(112)] having a prescribed frequency.

3.(AMENDED) The apparatus set forth in claim 1, wherein the apparatus is operable to apply a time varying signal to the electronic security device [(108)], which time varying signal is detected by the port detector [(308)] at the loop antenna [(306)] as a signature signal [[is detected by]] and wherein the port detector [(308)] is responsive to variations in [[as electrostatic radiation, and the detector measures]] capacitance that are identifiable from the signature signal and indicate presence of said conductor [(302)].

4.(AMENDED) The apparatus set forth in claim 1, wherein the electronic security device [(108)] emits a time varying signal detected by the port detector [(308)] as a signature signal at the loop antenna [(306)], and wherein the port detector [(308)] is responsive to variations in a capacitance of the electronic security device [(108)] that are identifiable from the signature signal.

5.(AMENDED) The apparatus set forth in claim 1, wherein the electronic security device [(108)] is a smart card.

6.(AMENDED) A method of determining unauthorized use of an electronic security device [(108)] [comprising:] wherein the electronic security device [(108)] is used in an apparatus having a housing [(121)] that is substantially closed but for an opening defining a port [(112)] for receiving the electronic security device [(108)] and the unauthorized use includes coupling conductors [(302)] to the electronic security device [(108)], the conductors [(302)] extending along a path through the port [(112)], characterized in that] wherein:

a loop antenna [(306)] is placed at the opening defining the port [(112)], encompassing the path of any said conductors [(302)]; and,

radiation received at the loop antenna [(306)] is monitored to detect unauthorized use of the electronic security device [(108)] by providing a time varying current in the conductors [(302)] and detecting a resulting signature at the loop antenna [(306)], and determining that the electronic security device [(108)] has a capacitance detected by a signature signal at the loop antenna indicating presence of the conductors [(302)].

7.(AMENDED) The method set forth in claim 6, further comprising at least limiting transfer of information between the electronic security device [(108)] and the host device [(101)] upon detection of said unauthorized use.

8.(AMENDED) The method set forth in claim 6, wherein the electronic security device [(108)] is a smart card.

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